A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

November 8, 1990

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of October, 1990)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased during October. The land crew total decreased by three to 98, and the marine crew total decreased by two for a total of 121 crews and vessels, a net decrease of five crews.

The October total (121) represents a decrease of 4% from last month, a 7% decrease from October, 1989, a 30% decrease from October, 1988, a 38% decrease from October, 1987, a 23% decrease from October, 1986, a 66% decrease from October, 1985, and **a decrease of 76% from the same month in 1984.**

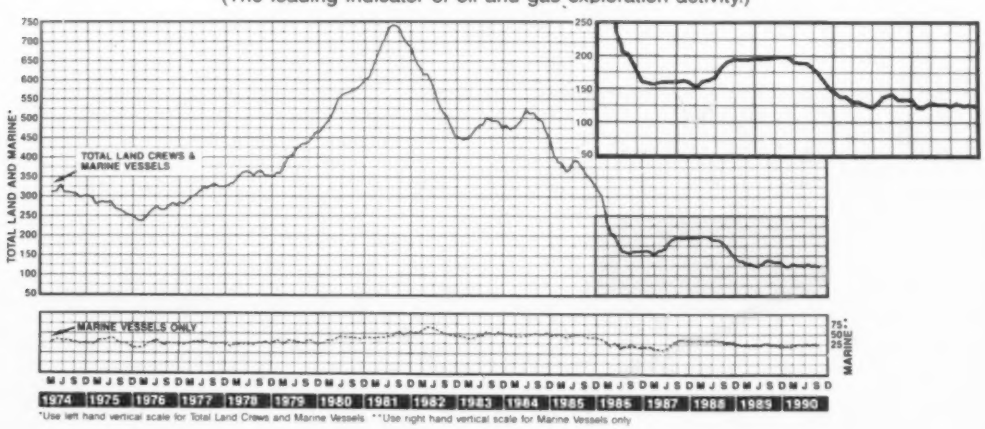
During October, three contractors were operating three of the 91 land crews and none of the twenty-one marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Oct.'89	Oct.'88	Oct.'87	Oct.'86	Oct.'85	Oct.'84
	121	126	130	172	195	158	357	497

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Oct. 1989	Oct. 1988	Oct. 1987	Oct. 1986	Oct. 1985	Oct. 1984	This Mo.	Last Mo.	Oct. 1989	Oct. 1988	Oct. 1987	Oct. 1986	Oct. 1985	Oct. 1984
34 Contr's:	91	93	100	128	148	119	279	412	21	23	18	27	29	18	38	42
4 Oil Co's:	7	8	9	14	15	17	33	37	2	2	3	3	3	4	7	6
1 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	98	101	109	142	163	136	312	449	23	25	21	30	32	22	45	48

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

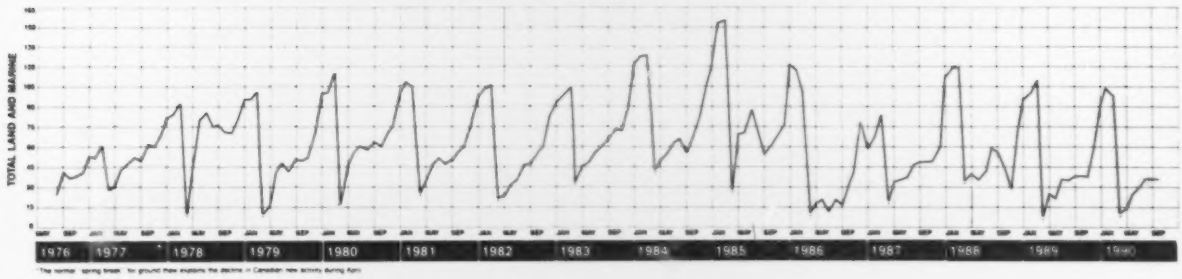
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

October, 1990 (September figures in parentheses)

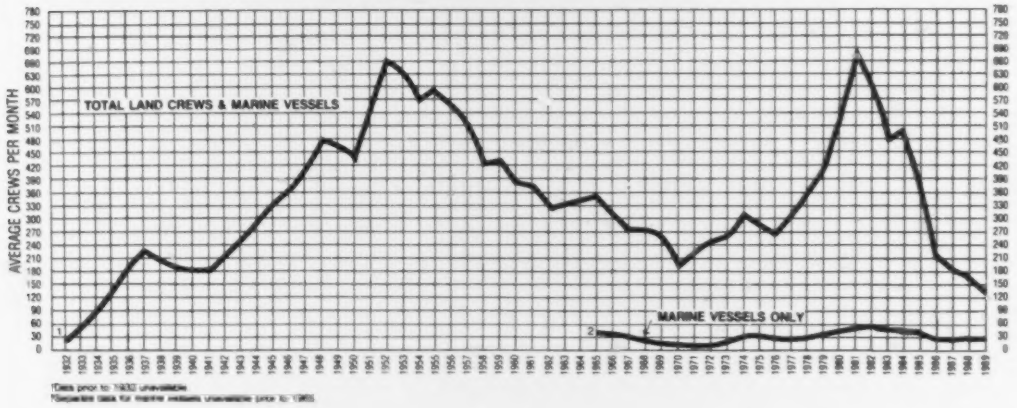
	Land Crews	Marine Crews
21 Contractors:	35 (30)	1 (3)
1 Oil Company:	1 (1)	0 (0)
Totals:	36 (31)	1 (3)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

December 11, 1990

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of November, 1990)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters increased slightly during November. The land crew total increased by two to 100, and the marine crew total stayed the same for a total of 123 crews and vessels, a net increase of two crews.

The November total (123) represents an increase of 2% over last month, a 5% decrease from November, 1989, a 21% decrease from November, 1988, a 38% decrease from November, 1987, a 22% decrease from November, 1986, a 64% decrease from November, 1985, and **a decrease of 75% from the same month in 1984.**

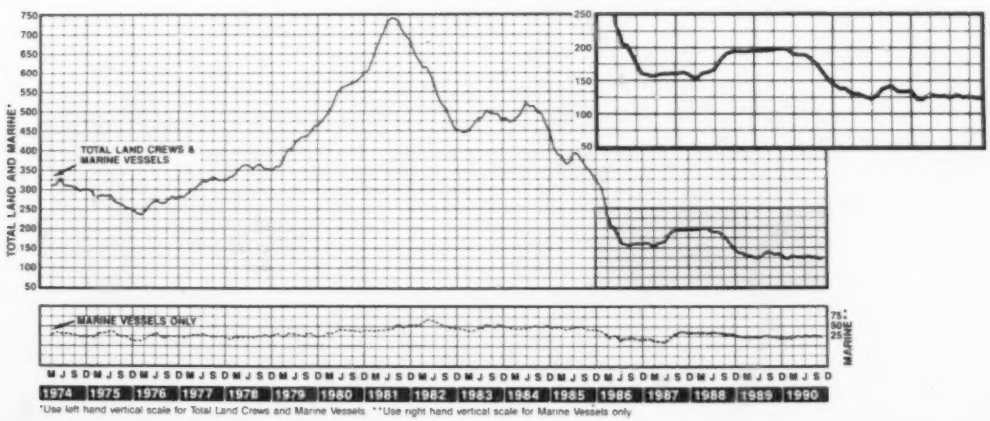
During November, two contractors were operating three of the 94 land crews and none of the twenty marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Nov.'89	Nov.'88	Nov.'87	Nov.'86	Nov.'85	Nov.'84
	123	121	129	155	198	158	346	493

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Nov. 1989	Nov. 1988	Nov. 1987	Nov. 1986	Nov. 1985	Nov. 1984	This Mo.	Last Mo.	Nov. 1989	Nov. 1988	Nov. 1987	Nov. 1986	Nov. 1985	Nov. 1984
35 Contr's:	94	91	99	114	155	121	273	407	20	21	17	25	25	15	35	42
4 Oil Co's:	6	7	10	13	15	18	32	37	3	2	3	3	3	4	6	7
1 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	100	98	109	127	170	139	305	444	23	23	20	28	28	19	41	49

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
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1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990

*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

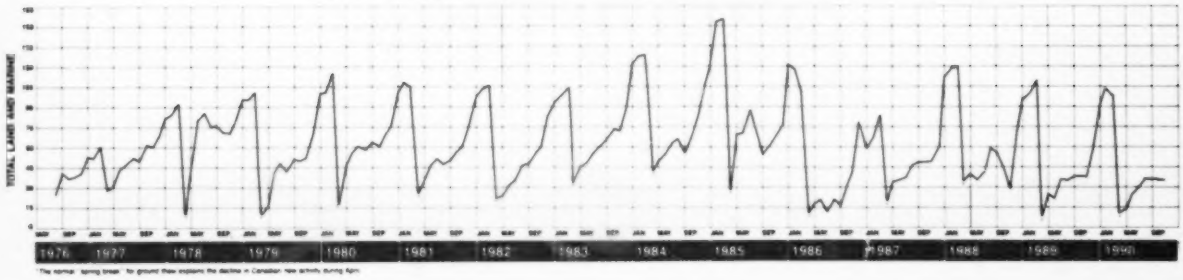
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

November, 1990 (October figures in parentheses)

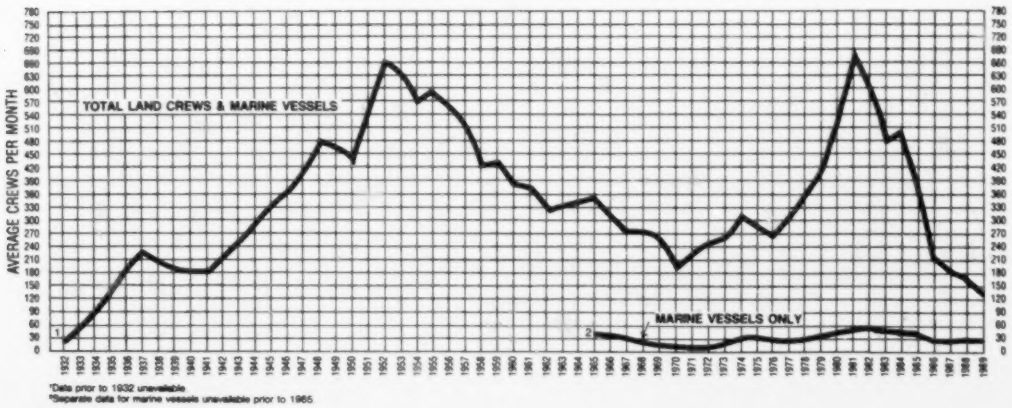
	Land Crews	Marine Crews
21 Contractors:	34 (35)	0 (1)
1 Oil Company:	1 (1)	0 (0)
Totals:	35 (36)	0 (1)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)


AVERAGE CREWS PER MONTH
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
1
2
*Data prior to 1932 unavailable
*Separate data for marine vessels unavailable prior to 1965

A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

January 11, 1991

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of December, 1990)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased slightly during December. The land crew total decreased by two to 98, and the marine crew total stayed the same for a total of 121 crews and vessels, a net decrease of two crews.

The December total (121) represents a decrease of 2% from last month, an 8% decrease from December, 1989, a 14% decrease from December, 1988, a 39% decrease from December, 1987, a 23% decrease from December, 1986, a 63% decrease from December, 1985, and **a decrease of 74% from the same month in 1984.**

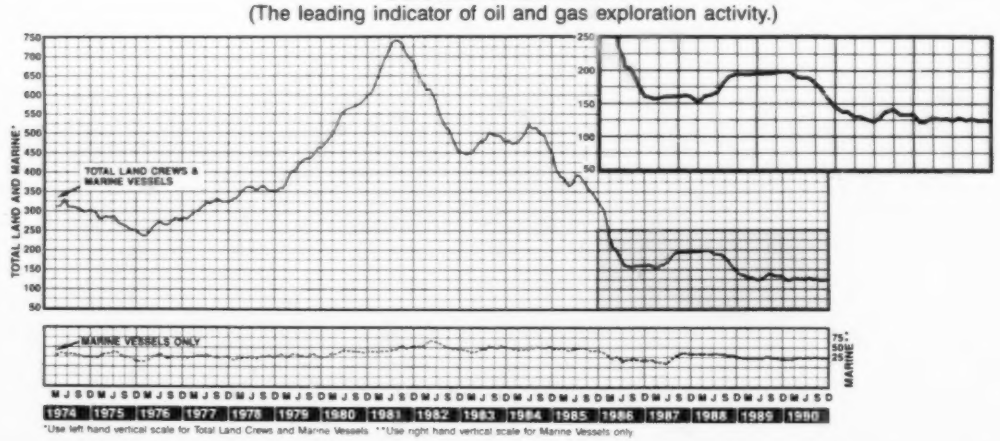
During December, one contractor was operating one of the 91 land crews and none of the twenty marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Dec.'89	Dec.'88	Dec.'87	Dec.'86	Dec.'85	Dec.'84
	121	123	132	141	199	157	326	466

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Dec. 1989	Dec. 1988	Dec. 1987	Dec. 1986	Dec. 1985	Dec. 1984	This Mo.	Last Mo.	Dec. 1989	Dec. 1988	Dec. 1987	Dec. 1986	Dec. 1985	Dec. 1984
34 Contr's:	91	94	102	100	157	121	255	378	20	20	17	24	24	15	33	44
5 Oil Co's:	7	6	10	14	15	18	32	36	3	3	3	3	3	3	6	8
1 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	98	100	112	114	172	139	287	414	23	23	20	27	27	18	39	52

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
MARINE**
1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990
*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

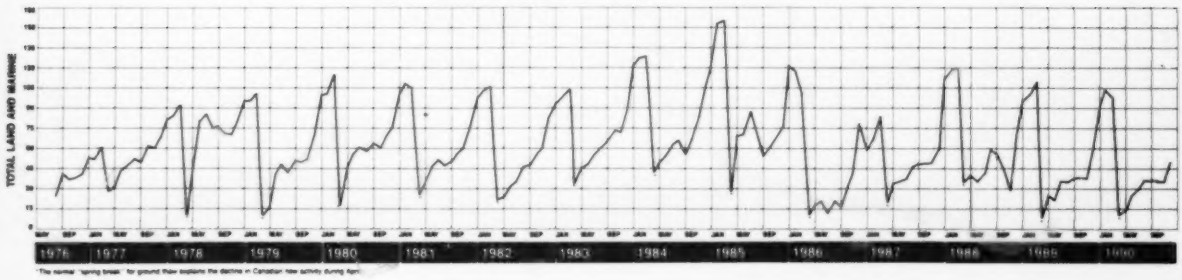
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

December, 1990 (November figures in parentheses)

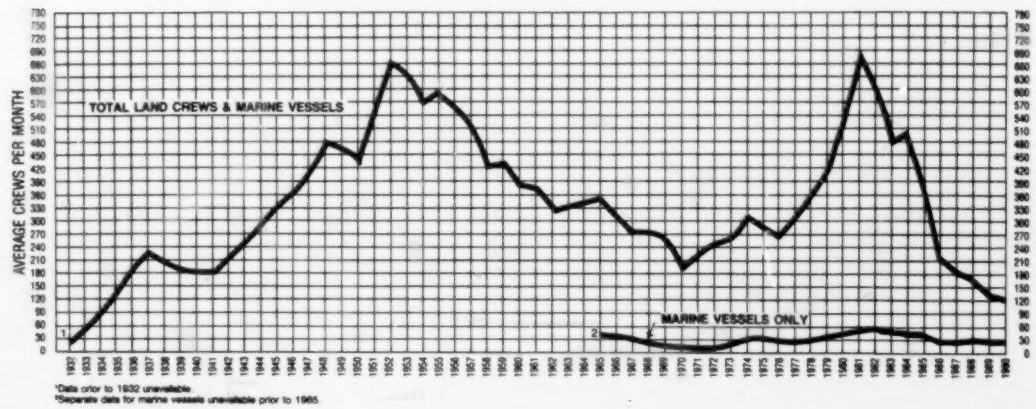
	Land Crews	Marine Crews
24 Contractors:	52 (34)	0 (0)
1 Oil Company:	1 (1)	0 (0)
Totals:	53 (35)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



*Data prior to 1932 unavailable.
*Separate data for marine vessels unavailable prior to 1985.

A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

February 8, 1991

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of January)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased during January. The land crew total decreased by six to 92, and the marine crew total decreased by one, a net decrease of seven crews, for a total of 114 crews. **This total establishes a new low number of crews and vessels working in the United States since SEG instigated its monthly survey in May of 1974. The previous low (120) was in February, 1990.**

The January total (114) represents a decrease of 6% from last month, a 7% decrease from January, 1990, a 17% decrease from January, 1989, a 42% decrease from January, 1988, a 29% decrease from January, 1987, a 63% decrease from January, 1986, and **a decrease of 74% from the same month in 1985.**

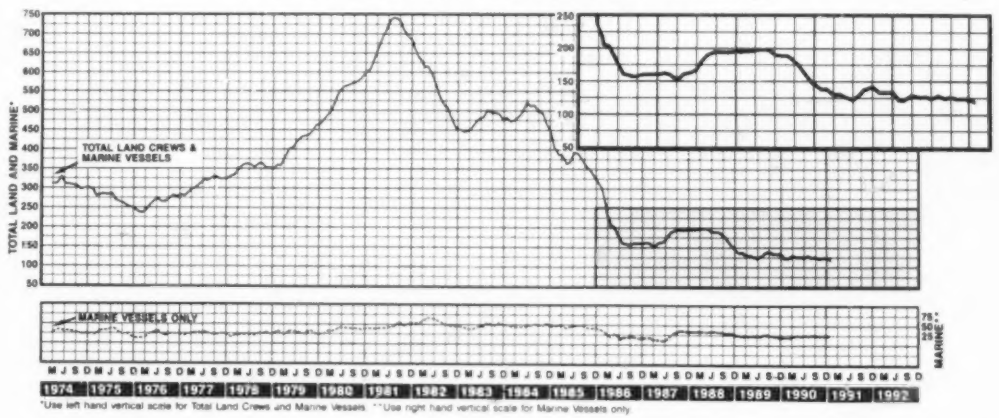
During January, two contractors were operating three of the 85 land crews and one of the nineteen marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Jan.'90	Jan.'89	Jan.'88	Jan.'87	Jan.'86	Jan.'85
	114	121	123	137	197	160	310	439

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Jan. 1990	Jan. 1989	Jan. 1988	Jan. 1987	Jan. 1986	Jan. 1985	This Mo.	Last Mo.	Jan. 1990	Jan. 1989	Jan. 1988	Jan. 1987	Jan. 1986	Jan. 1985
32 Contr's:	85	91	94	99	152	126	240	358	19	20	18	22	26	15	34	39
4 Oil Co's:	7	7	9	13	15	16	31	35	3	3	2	3	4	3	5	7
1 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	92	98	103	112	167	142	271	393	22	23	20	25	30	18	39	46

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
MARINE**
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1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992
*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

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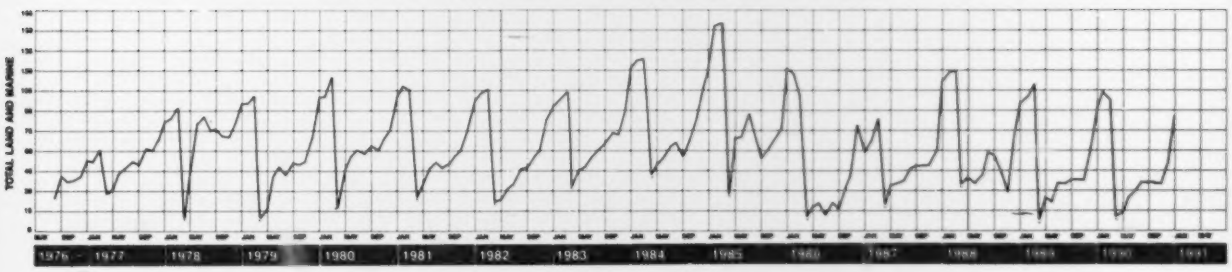
CANADIAN SEISMIC CREW COUNT

January, 1991 (December, 1990 figures in parentheses)

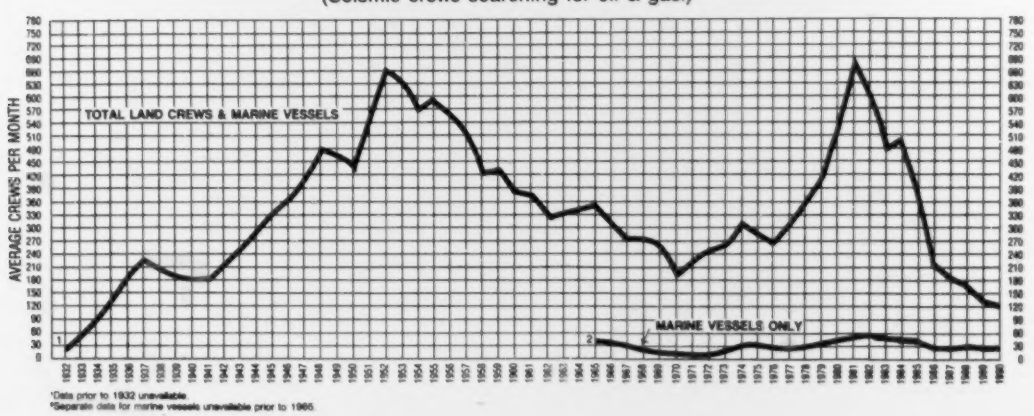
	Land Crews	Marine Crews
27 Contractors:	83 (52)	0 (0)
1 Oil Company:	1 (1)	0 (0)
Totals:	84 (53)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



*Data prior to 1932 unavailable.
*Separate data for marine vessels unavailable prior to 1966.

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SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT March 12, 1991

(Month of February)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters increased during February. The land crew total increased by five to 97, and the marine crew total decreased by one, a net increase of four crews, for a total of 118 crews.

The February total (118) represents an increase of 4% over last month, a 2% decrease from February, 1990, a 14% decrease from February, 1989, a 40% decrease from February, 1988, a 22% decrease from February, 1987, a 60% decrease from February, 1986, and **a decrease of 71% from the same month in 1985.**

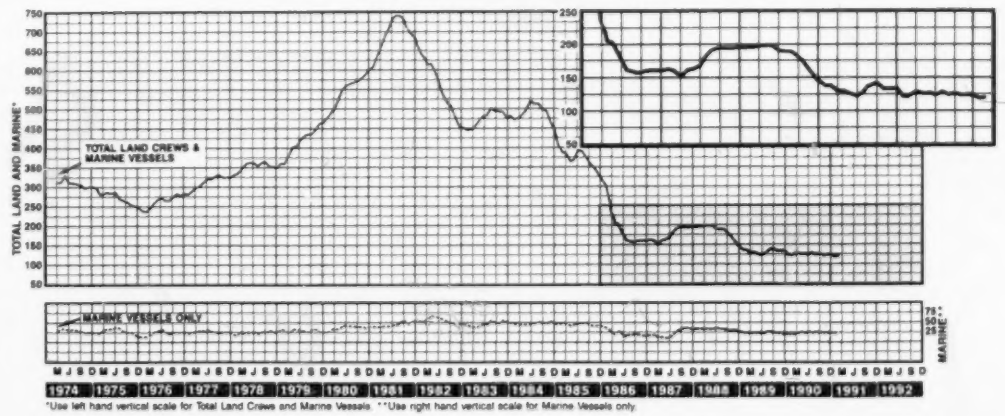
During February, two contractors were operating three of the 91 land crews and one of the eighteen marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month 118	Last Month 114	Feb.'90 120	Feb.'89 138	Feb.'88 198	Feb'87 151	Feb.'86 295	Feb.'85 406

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Feb. 1990	Feb. 1989	Feb. 1988	Feb. 1987	Feb. 1986	Feb. 1985	This Mo.	Last Mo.	Feb. 1990	Feb. 1989	Feb. 1988	Feb. 1987	Feb. 1986	Feb. 1985
34 Contr's:	91	85	91	102	155	119	226	326	18	19	18	20	26	16	34	38
5 Oil Co's:	6	7	9	13	13	13	30	34	3	3	2	3	4	3	5	7
1 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	97	92	100	115	168	132	256	360	21	22	20	23	30	19	39	46

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
MARINE**
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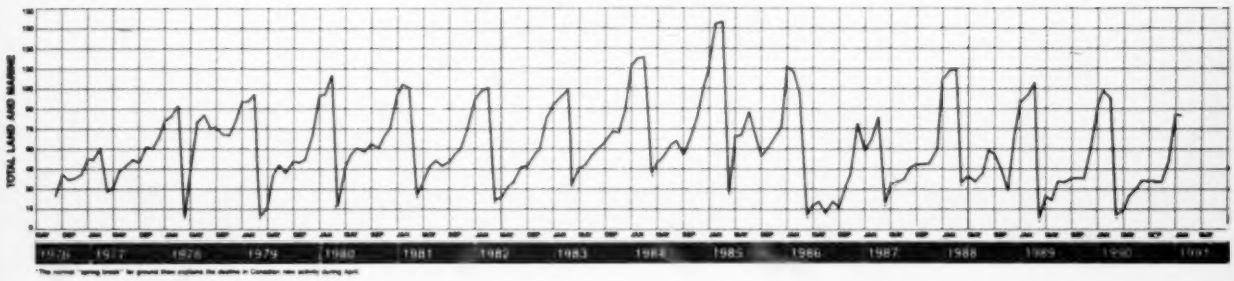
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

February, 1991 (January figures in parentheses)

	Land Crews	Marine Crews
27 Contractors:	80 (83)	0 (0)
1 Oil Company:	1 (1)	0 (0)
Totals:	81 (84)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



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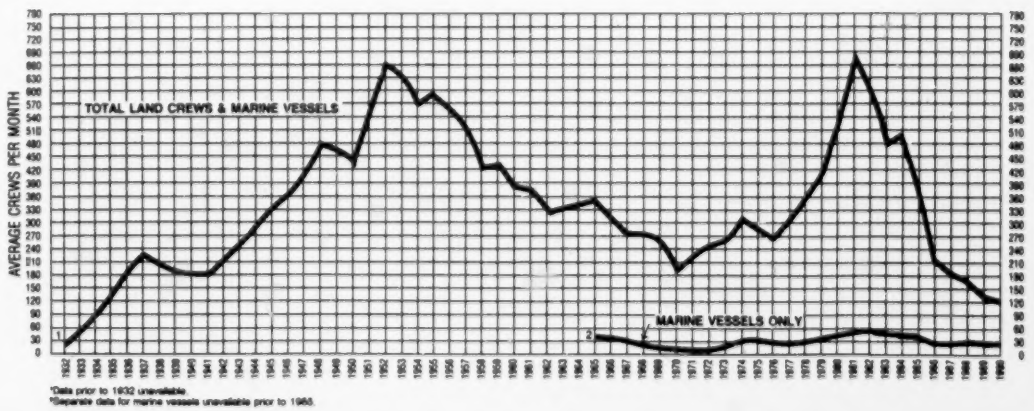
HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



*Data prior to 1932 unavailable.
*Separate data for marine vessels unavailable prior to 1966.

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SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT April 12, 1991

(Month of March)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased during March. The land crew total decreased by nine to 88, and the marine crew total increased by three, a net decrease of six crews, for a total of 112 crews.

The March total (112) represents a decrease of 5% from last month, a 13% decrease from March, 1990, a 13% decrease from March, 1989, a 42% decrease from March, 1988, a 25% decrease from March, 1987, a 53% decrease from March, 1986, and **a decrease of 71% from the same month in 1985.**

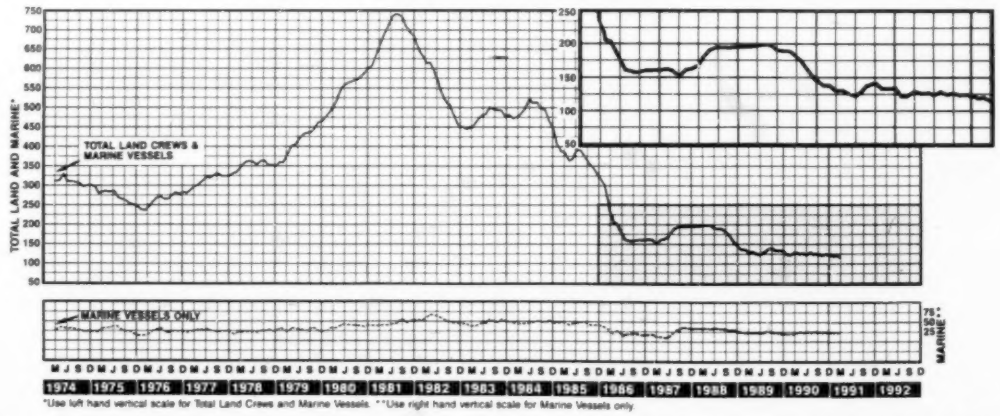
During March, two contractors were operating two of the 82 land crews and one of the twenty-one marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month 112	Last Month 118	Mar.'90 128	Mar.'89 129	Mar.'88 194	Mar'87 150	Mar.'86 240	Mar.'85 388

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Mar. 1990	Mar. 1989	Mar. 1988	Mar. 1987	Mar. 1986	Mar. 1985	This Mo.	Last Mo.	Mar. 1990	Mar. 1989	Mar. 1988	Mar. 1987	Mar. 1986	Mar. 1985
32 Contr's:	82	91	98	99	150	118	185	306	21	18	19	18	25	15	23	40
5 Oil Co's:	6	6	9	9	15	14	27	34	3	3	2	3	4	3	5	7
1 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TOTALS	88	97	107	108	165	132	212	340	24	21	21	21	29	18	28	48

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
MARINE**
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1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992
*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

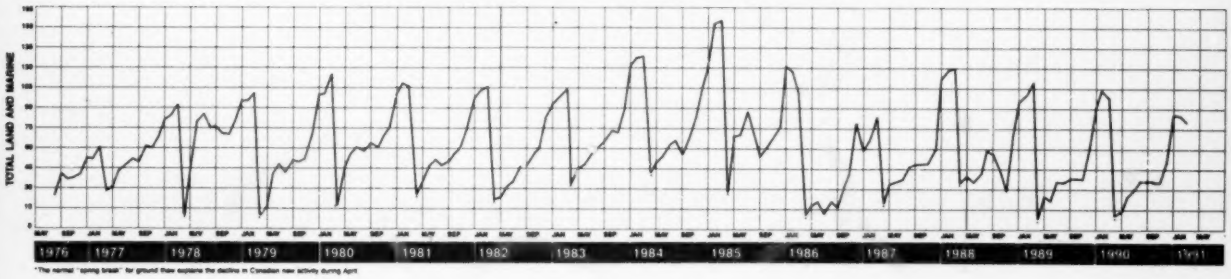
CANADIAN SEISMIC CREW COUNT

March, 1991 (February figures in parentheses)

	Land Crews	Marine Crews
27 Contractors:	81 (80)	0 (0)
1 Oil Company:	1 (1)	0 (0)
Totals:	82 (81)	0 (0)

CANADIAN SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

A89/2-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

May 10, 1991

(Month of April)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased during April for the second consecutive month. The land crew total decreased by one to 87, and the marine crew total decreased by one, a net decrease of two crews, for a total of 110 crews.

The April total (110) represents a decrease of 2% from last month, a 12% decrease from April, 1990, a 16% decrease from April, 1989, a 44% decrease from April, 1988, a 33% decrease from April, 1987, a 46% decrease from April, 1986, and **a decrease of 71% from the same month in 1985.**

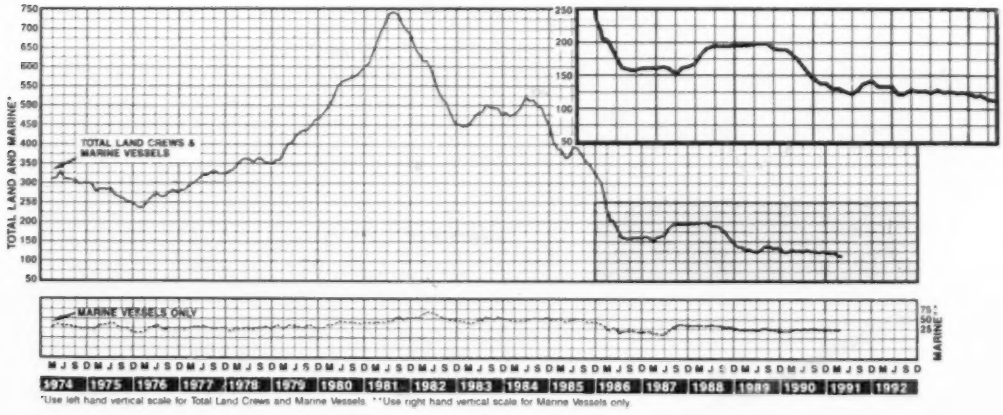
During April, two contractors were operating three of the 81 land crews and none of the twenty-one marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Apr.'90	Apr.'89	Apr.'88	Apr'87	Apr.'86	Apr.'85
	110	112	125	131	196	164	205	383

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Apr. 1990	Apr. 1989	Apr. 1988	Apr. 1987	Apr. 1986	Apr. 1985	This Mo.	Last Mo.	Apr. 1990	Apr. 1989	Apr. 1988	Apr. 1987	Apr. 1986	Apr. 1985
32 Contr's:	81	82	93	99	152	131	159	304	21	21	21	19	24	16	15	39
4 Oil Co's:	6	6	8	10	15	14	26	32	2	3	2	3	4	3	5	7
1 Gov't:	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1
TOTALS	87	88	101	109	167	145	185	336	23	24	24	22	29	19	20	47

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
MARINE**
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1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992
*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

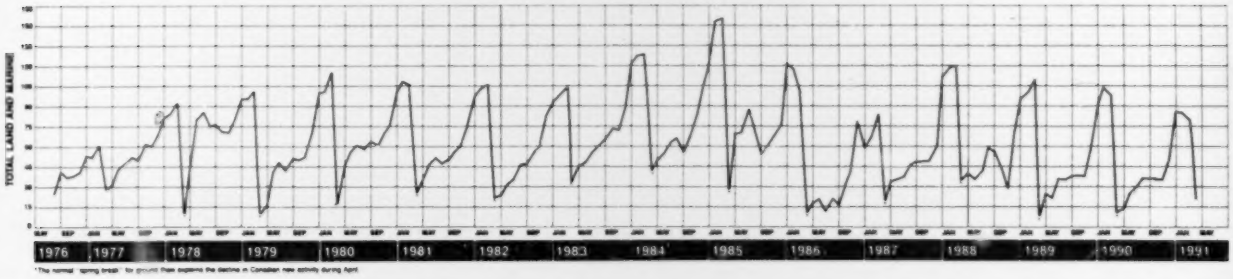
CANADIAN SEISMIC CREW COUNT

April, 1991 (March figures in parentheses)

	Land Crews	Marine Crews
13 Contractors:	21 (81)	0 (0)
0 Oil Companies:	0 (1)	0 (0)
Totals:	21 (82)	0 (0)

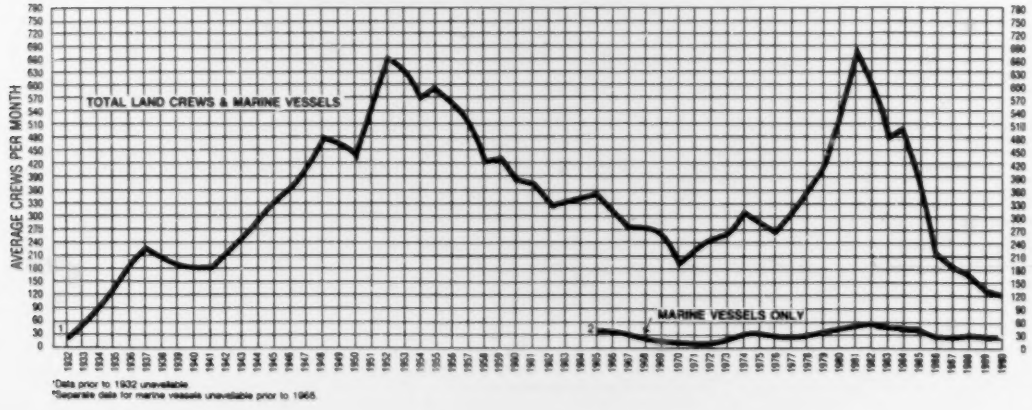
"Spring Break" for ground thaw explains the decline in Canadian crew activity during April.

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



[1]Data prior to 1932 unavailable
[2]Separate data for marine vessels unavailable prior to 1966

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

June 10, 1991

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of May)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased during May for the third consecutive month. The land crew total decreased by two to 85, and the marine crew total decreased by one, a net decrease of three crews, for a total of 107 crews. **This total establishes a new low number of crews and vessels working in the United States since SEG instigated its monthly survey in May of 1974.**

The May total (107) represents a decrease of 3% from last month, a 17% decrease from May, 1990, a 15% decrease from May, 1989, a 45% decrease from May, 1988, a 36% decrease from May, 1987, a 44% decrease from May, 1986, and **a decrease of 71% from the same month in 1985.**

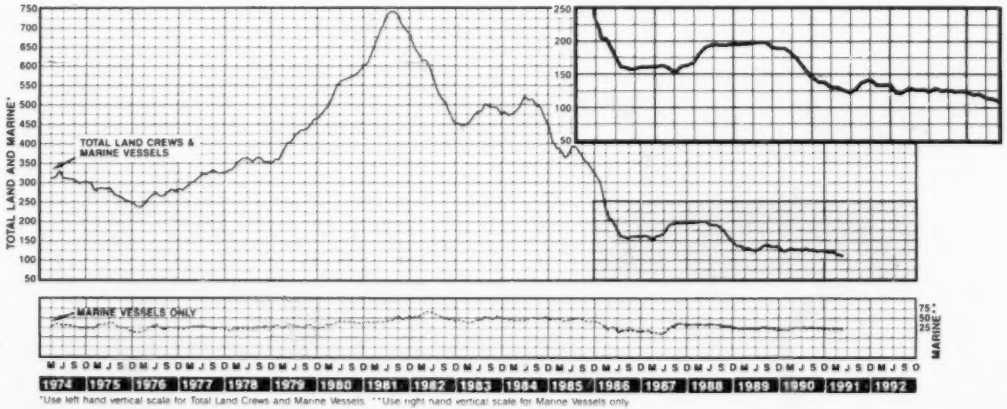
During May, three contractors were operating five of the 79 land crews and none of the twenty marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month 107	Last Month 110	May '90 129	May '89 126	May '88 194	May '87 166	May '86 191	May '85 364

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	May 1990	May 1989	May 1988	May 1987	May 1986	May 1985	This Mo.	Last Mo.	May 1990	May 1989	May 1988	May 1987	May 1986	May 1985
33 Contr's:	79	81	96	95	149	131	148	293	20	21	22	19	25	17	14	35
4 Oil Co's:	6	6	8	9	15	15	24	30	2	2	2	3	4	3	5	5
1 Gov't:	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1
TOTALS	85	87	104	104	164	146	172	323	22	23	25	22	30	20	19	41

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
MARINE**
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1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992

*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

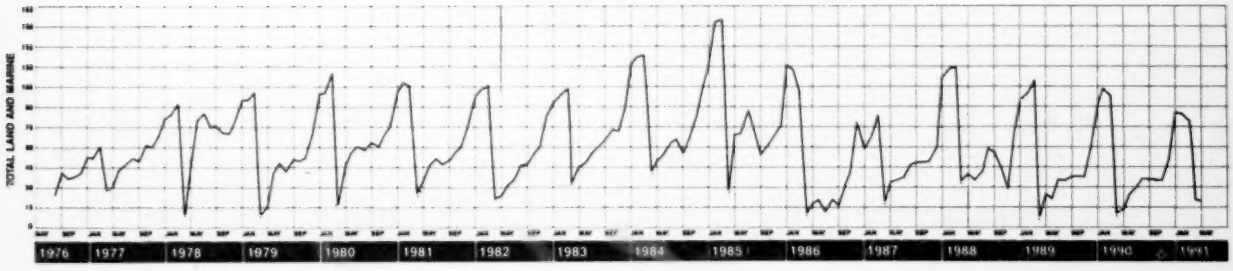
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

May, 1991 (April figures in parentheses)

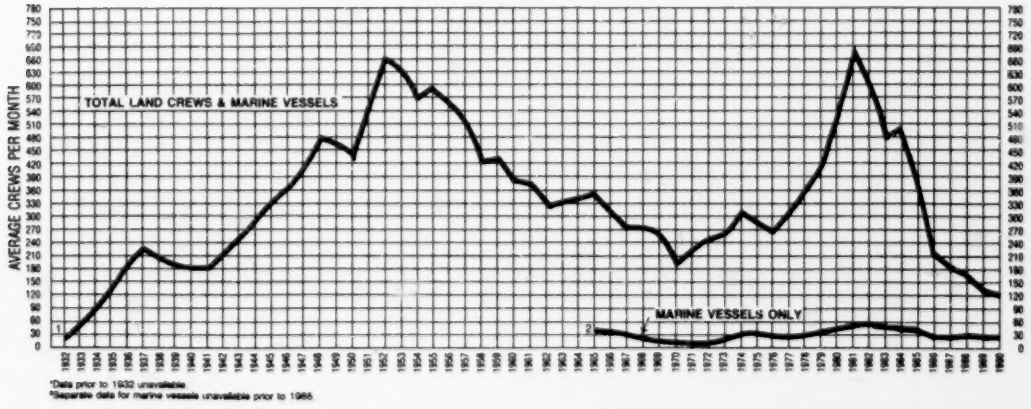
	Land Crews	Marine Crews
13 Contractors:	19 (21)	0 (0)
0 Oil Companies:	0 (0)	0 (0)
Totals:	19 (21)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



*Data prior to 1932 unavailable.
*Separate data for marine vessels unavailable prior to 1966.

A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

July 10, 1991

(Month of June)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters increased slightly during June. The land crew total increased by two to 87, and the marine crew total decreased by one, a net increase of one crew, for a total of 108 crews.

The June total (108) represents an increase of 1% over last month, a 12% decrease from June, 1990, a 13% decrease from June, 1989, a 43% decrease from June, 1988, a 36% decrease from June, 1987, a 40% decrease from June, 1986, and **a decrease of 71% from the same month in 1985.**

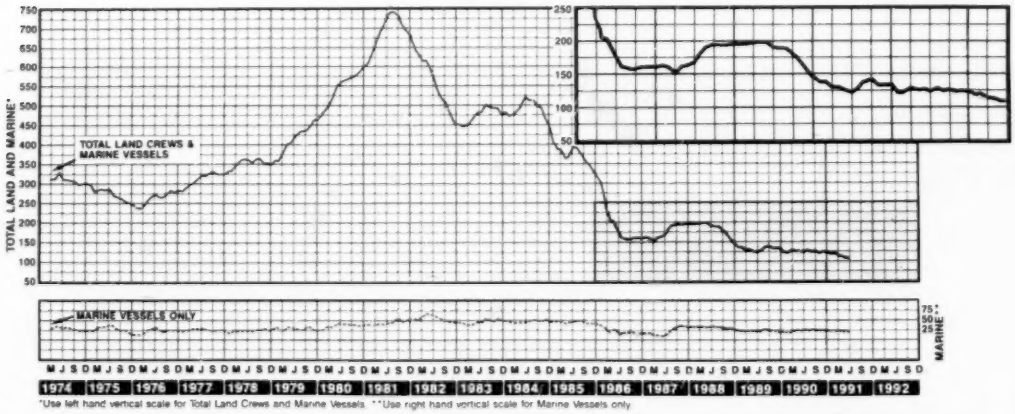
During June, two contractors were operating three of the 82 land crews and none of the nineteen marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	June'90	June'89	June'88	June'87	June'86	June'85
	108	107	123	124	188	169	180	371

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	June 1990	June 1989	June 1988	June 1987	June 1986	June 1985	This Mo.	Last Mo.	June 1990	June 1989	June 1988	June 1987	June 1986	June 1985
35 Contr's:	82	79	93	92	143	133	140	294	19	20	20	18	25	19	14	40
3 Oil Co's:	5	6	7	10	15	14	22	30	2	2	2	3	4	3	4	6
1 Gov't:	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	1
TOTALS	87	85	100	102	158	147	162	324	21	22	23	22	30	22	18	47

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
MARINE**
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1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992

*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

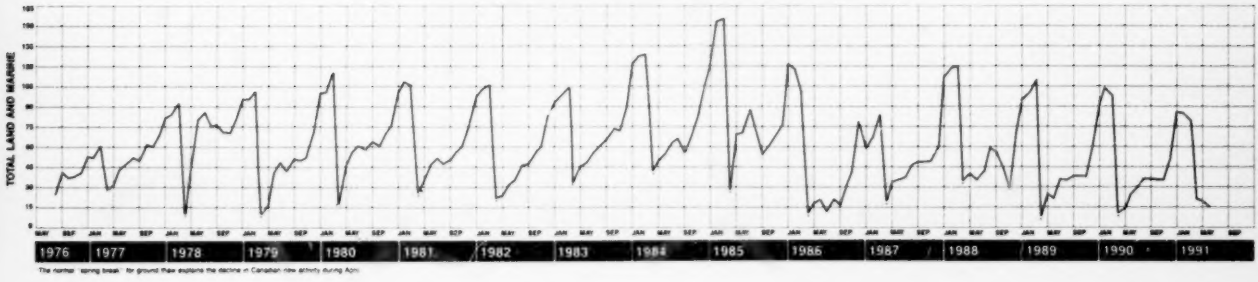
SEG SEISMIC CREW COUNT
Page 2

CANADIAN SEISMIC CREW COUNT

June, 1991 (May figures in parentheses)

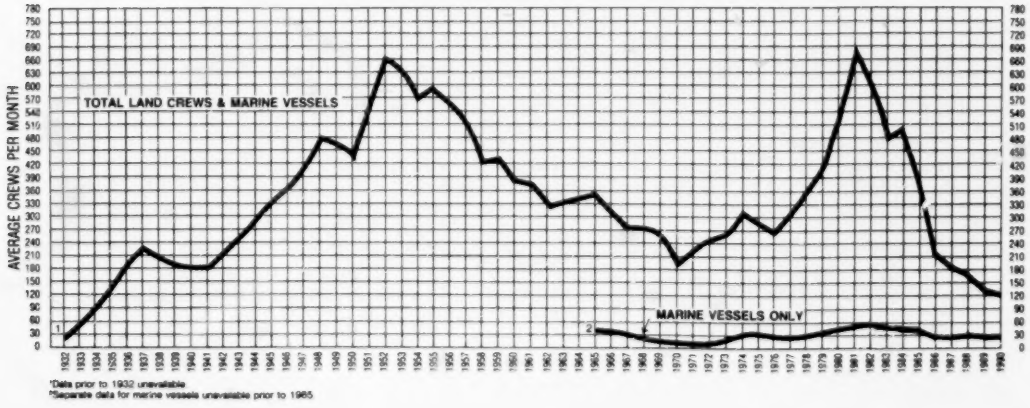
	Land Crews	Marine Crews
13 Contractors:	15 (19)	0 (0)
0 Oil Companies:	0 (0)	0 (0)
Totals:	15 (19)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



*Data prior to 1932 unavailable
**Separate data for marine vessels unavailable prior to 1985

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

August 14, 1991

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of July)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased during July. The land crew total increased by two to 89, and the marine crew total decreased for the fourth consecutive month. The number of marine crews decreased in July by five, a net total decrease of three crews, for a total of 105 crews.

The July total (105) represents a decrease of 3% from last month, a 19% decrease from July, 1990, a 19% decrease from July, 1989, a 44% decrease from July, 1988, a 43% decrease from July, 1987, a 34% decrease from July, 1986, and **a decrease of 74% from the same month in 1985.**

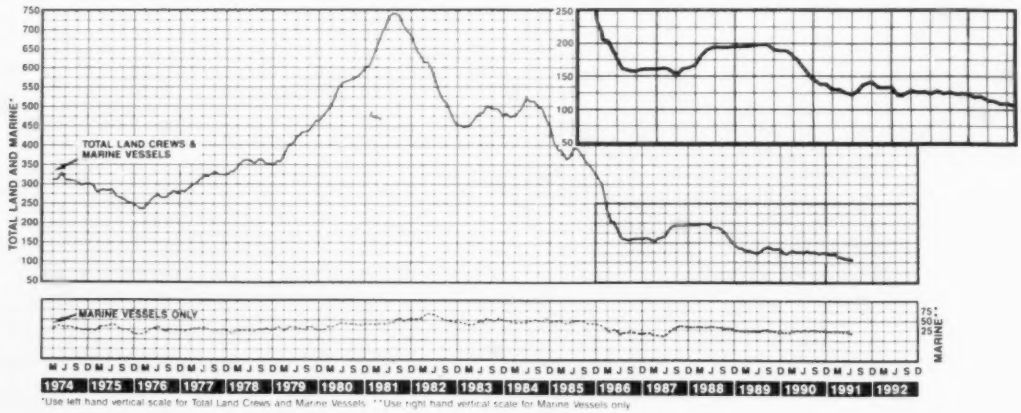
During July, four contractors were operating eight of the 84 land crews and two of the fourteen marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month 105	Last Month 108	July'90 129	July'89 129	July'88 186	July'87 183	July'86 158	July'85 397

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	July 1990	July 1989	July 1988	July 1987	July 1986	July 1985	This Mo.	Last Mo.	July 1990	July 1989	July 1988	July 1987	July 1986	July 1985
34 Contr's:	84	82	97	98	143	145	121	317	14	19	21	18	23	21	17	41
3 Oil Co's:	5	5	8	9	15	14	17	33	2	2	2	3	4	3	3	6
1 Gov't:	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0
TOTALS	89	87	105	107	158	159	138	350	16	21	24	22	28	24	20	47

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
MARINE**
1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992
*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

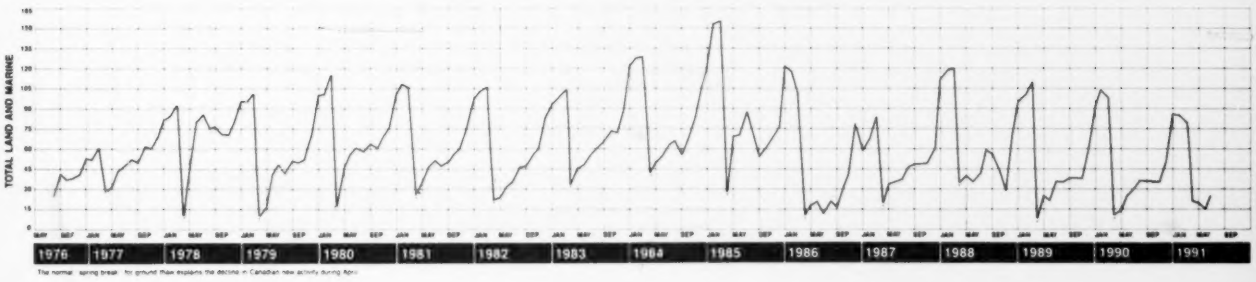
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

July, 1991 (June figures in parentheses)

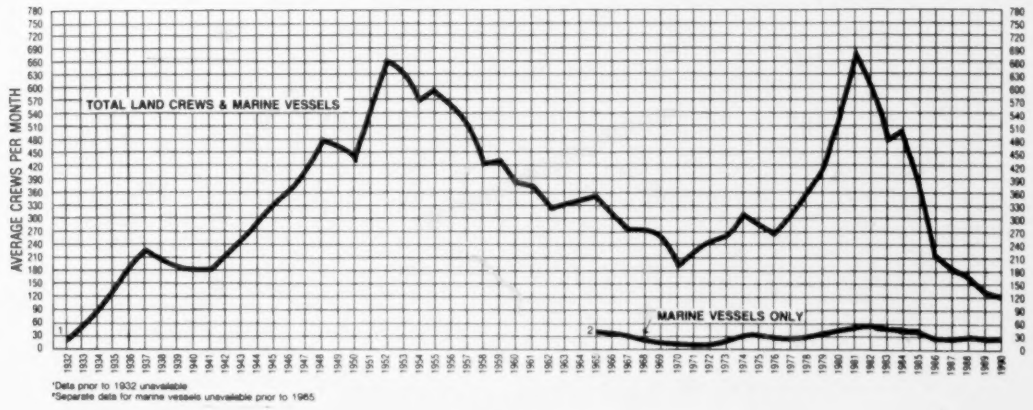
	Land Crews	Marine Crews
18 Contractors:	23 (15)	3 (0)
0 Oil Companies:	0 (0)	0 (0)
Totals:	23 (15)	3 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



*Data prior to 1932 unavailable
*Separate data for marine vessels unavailable prior to 1965

A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

September 11, 1991

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of August)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased in August for the second consecutive month. The land crew total decreased by two to 87, and the marine crew total decreased for the fifth consecutive month to fifteen, a net total decrease of three crews, to 102 crews. **This total establishes a new low number of crews and vessels working in the United States since SEG instigated its monthly survey in May of 1974.**

The August total (102) represents a decrease of 3% from last month, an 18% decrease from August, 1990, a 25% decrease from August, 1989, a 46% decrease from August, 1988, a 45% decrease from August, 1987, a 35% decrease from August, 1986, and **a decrease of 74% from the same month in 1985.**

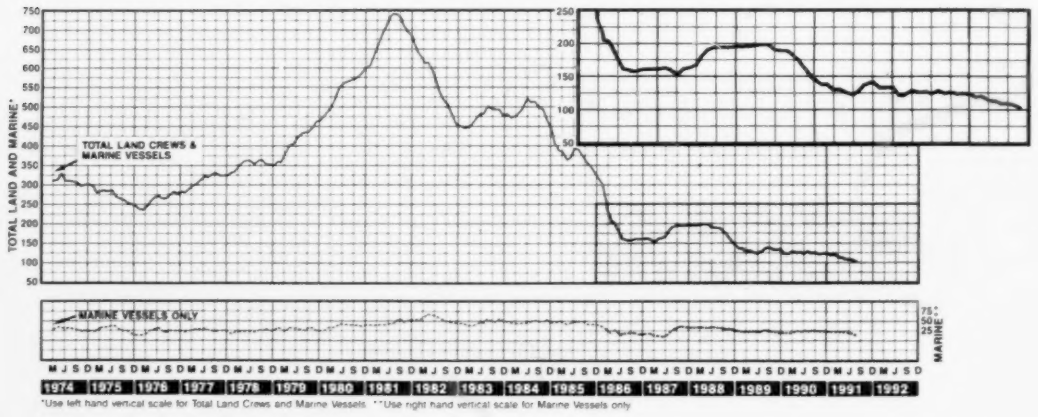
During August, four contractors were operating seven of the 81 land crews and one of the thirteen marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month 102	Last Month 105	Aug.'90 125	Aug.'89 136	Aug.'88 188	Aug.'87 187	Aug.'86 156	Aug.'85 390

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Aug. 1990	Aug. 1989	Aug. 1988	Aug. 1987	Aug. 1986	Aug. 1985	This Mo.	Last Mo.	Aug. 1990	Aug. 1989	Aug. 1988	Aug. 1987	Aug. 1986	Aug. 1985
33 Contr's:	81	84	94	100	141	145	120	308	13	14	21	23	27	25	16	42
4 Oil Co's:	6	5	8	10	15	14	17	33	2	2	2	3	4	3	3	6
1 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
TOTALS	87	89	102	110	156	159	137	341	15	16	23	26	32	28	19	49

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
MARINE**
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1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992
*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

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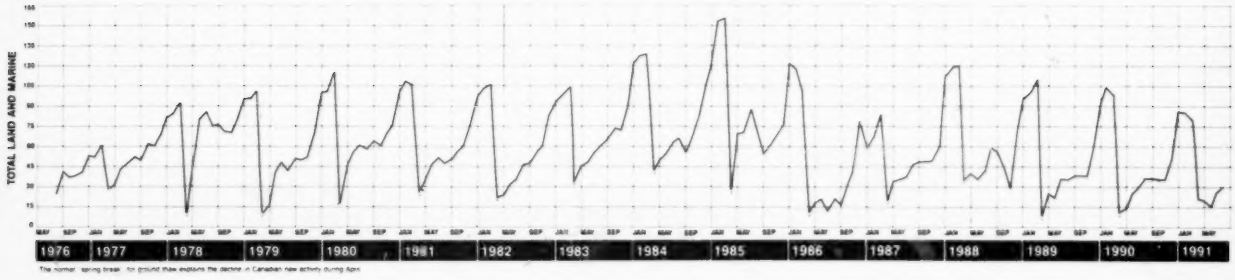
CANADIAN SEISMIC CREW COUNT

August, 1991 (July figures in parentheses)

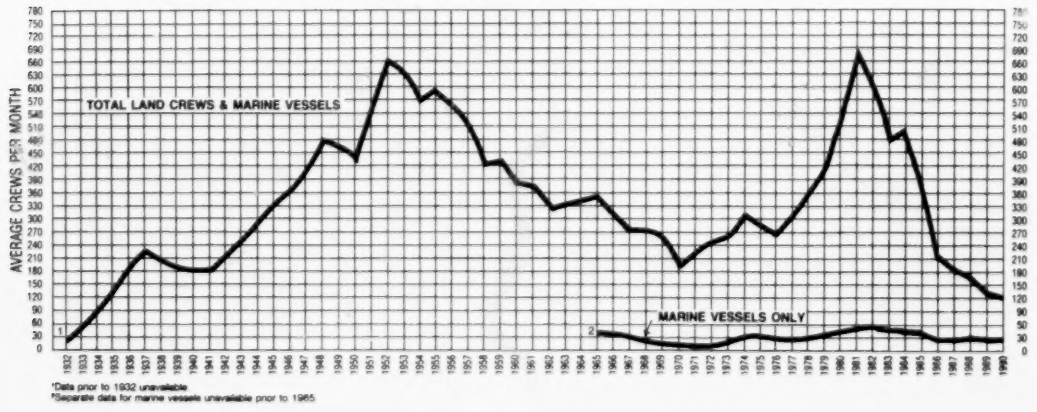
	Land Crews	Marine Crews
16 Contractors:	26 (23)	4 (3)
0 Oil Companies:	0 (0)	0 (0)
Totals:	26 (23)	4 (3)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



*Data prior to 1932 unavailable
*Separate data for marine vessels unavailable prior to 1965

AR112-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE October 16, 1991

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT (Month of September)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased in September for the third consecutive month. The land crew total decreased by three to 84, and the marine crew total decreased for the sixth consecutive month to fourteen, a net total decrease of four crews, to 98 crews. **This total establishes a new low number of crews and vessels working in the United States since SEG instigated its monthly survey in May of 1974, and marks the first time the total number of crews and vessels operating in the U.S. has fallen below 100 crews.**

The September total (98) represents a decrease of 4% from last month, a 22% decrease from September, 1990, a 29% decrease from September, 1989, a 46% decrease from September, 1988, a 49% decrease from September, 1987, a 37% decrease from September, 1986, and **a decrease of 74% from the same month in 1985.**

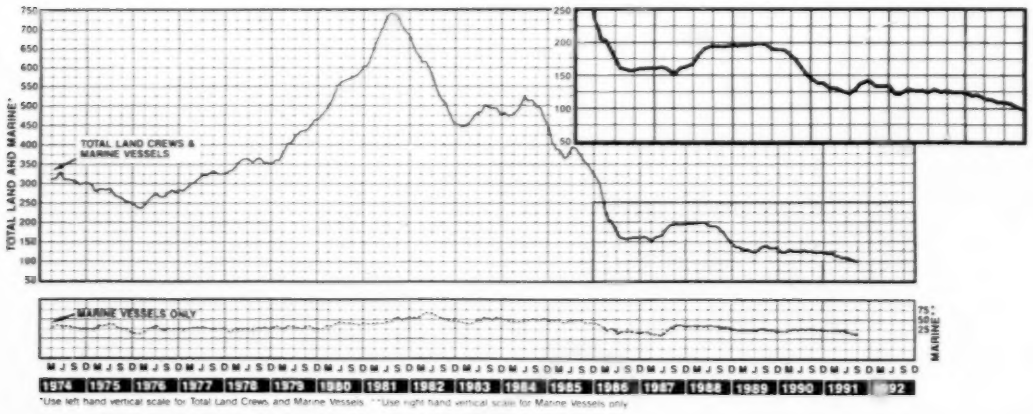
During September, three contractors were operating five of the 78 land crews and one of the twelve marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month 98	Last Month 102	Sept'90 126	Sept'89 138	Sept'88 181	Sept'87 193	Sept'86 155	Sept'85 372

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Sept 1990	Sept 1989	Sept 1988	Sept 1987	Sept 1986	Sept 1985	This Mo.	Last Mo.	Sept 1990	Sept 1989	Sept 1988	Sept 1987	Sept 1986	Sept 1985
33 Contr's:	78	81	93	104	136	151	114	290	12	13	23	21	25	26	20	43
4 Oil Co's:	6	6	8	10	15	13	17	33	2	2	2	3	4	3	4	6
1 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
TOTALS	84	87	101	114	151	164	131	323	14	15	25	24	30	29	24	49

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
MARINE**
M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D
1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992

*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

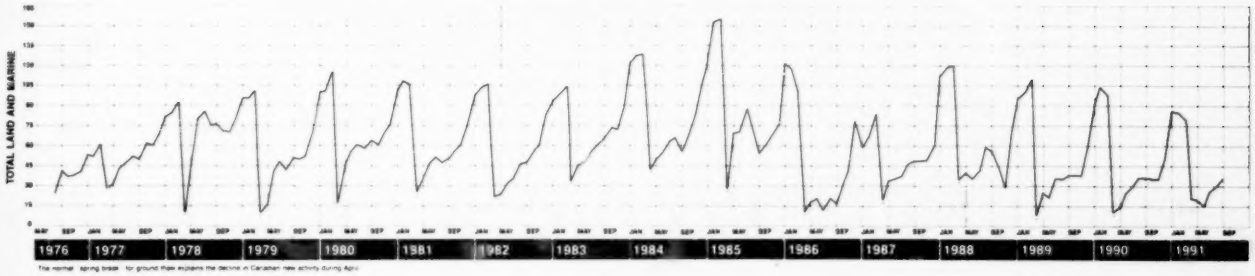
SEG SEISMIC CREW COUNT
Page 2

CANADIAN SEISMIC CREW COUNT

September, 1991 (August figures in parentheses)

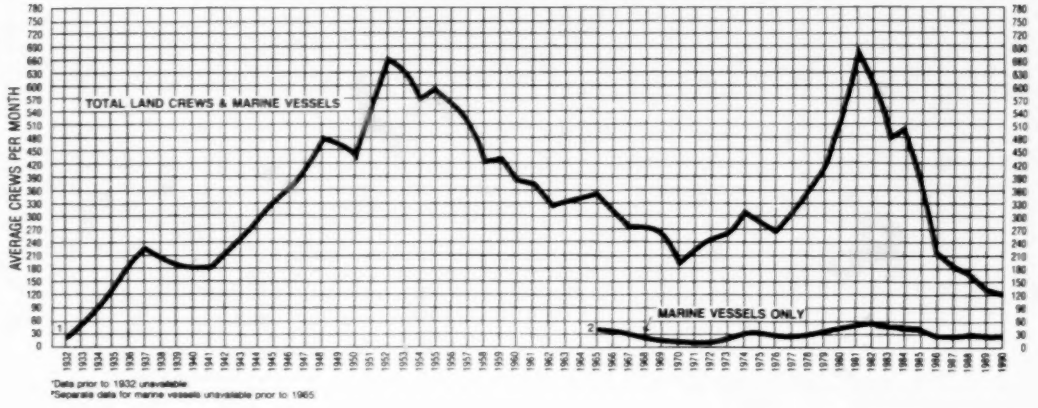
	Land Crews	Marine Crews
13 Contractors:	19 (26)	3 (4)
0 Oil Companies:	0 (0)	0 (0)
Totals:	22 (26)	3 (4)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



*Data prior to 1932 unavailable
*Separate data for marine vessels unavailable prior to 1965